



## ANIMAL FACTORY AMPLIFICATION MAN-EM2-PV-1 Distortion Module User Manual

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**rack:** (n) a framework, typically with rails, for holding or storing things.

**Tier:** (n, n, Ger) Animal.

**Congratulations!** You are now a the proud human to an AFA Pit Viper Module.

This module is based on the exact same circuit as our highly acclaimed Pit Viper overdrive pedal modified for use with Eurorack level voltages and with additional CV controlled circuitry.

While you can get instant gratification by plugging the module and letting loose, you should understand that your Pit Viper is no ordinary animal. Read this manual thoroughly to understand it better...

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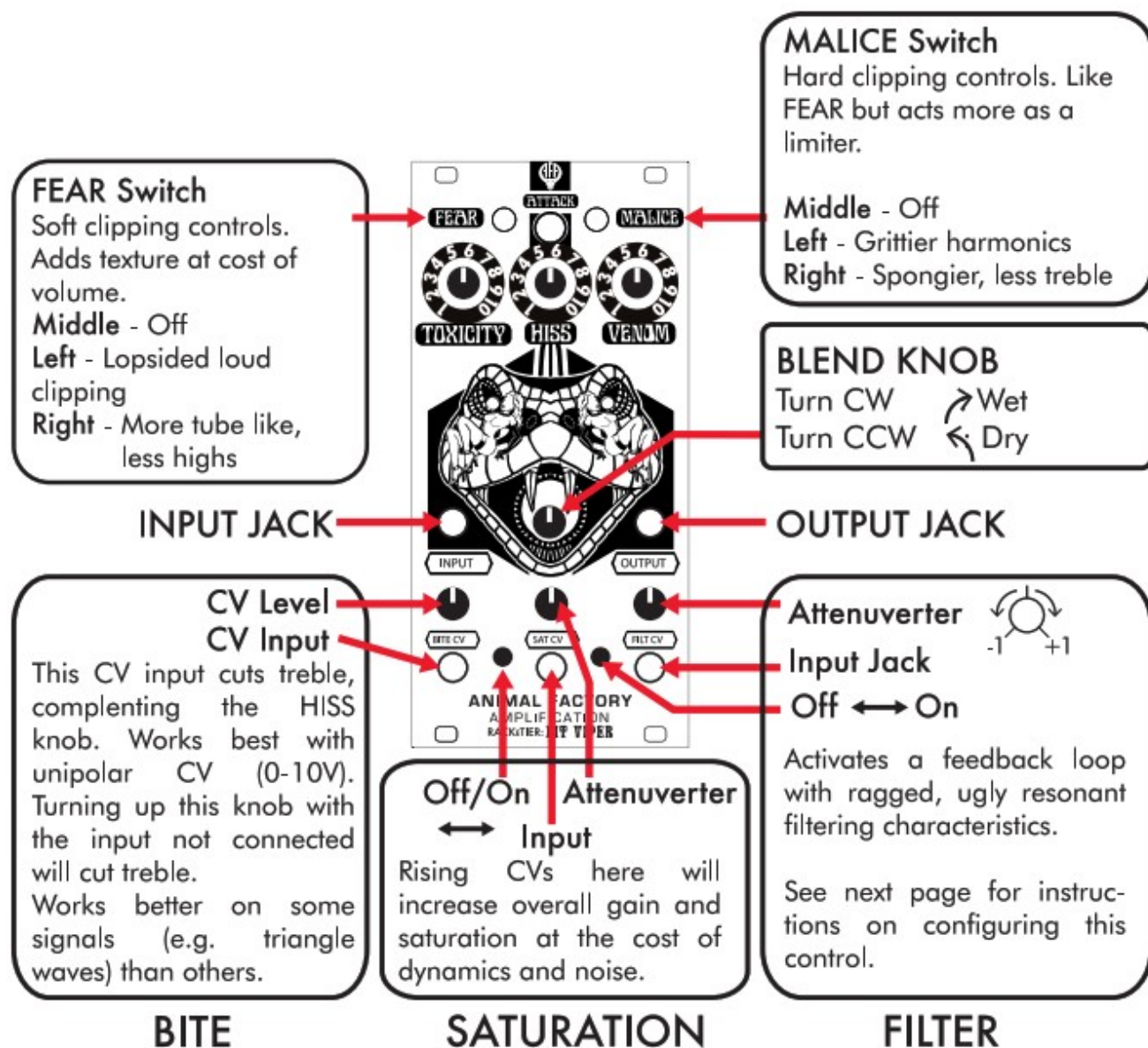
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## KNOBS

**TOXICITY** – Gain knob. Turn CW to increase distortion.

**HISS** – Tone knob. Turn CW to cut treble.

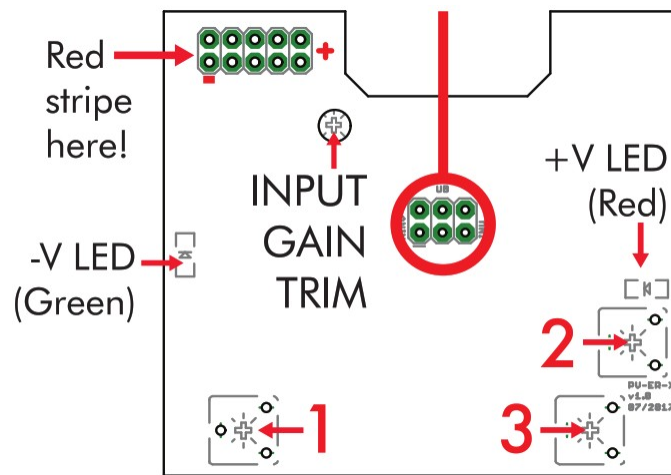
**VENOM** – Volume knob. Set dry/wet balance with this and the BLEND knob



## FILTER & POWER BOARD

### FILTER CONFIGURATION

	Passive clipped low pass
	Unbuffered high pass Mild shaping and bass cut
	Buffered high pass Pronounced bass cut
	Buffered Low Pass Can self-oscillate with gain



### 1. FILTER CV SENSITIVITY

Intensity control for the feedback filter. Turn CW for more sensitivity – dramatic and extreme effects but with less range.

### 2. FILTER GAIN

Turn clockwise to increase the level of filtered feedback and increase likelihood of oscillation.

### 3. SATURATION CV SENSITIVITY

Intensity control for overall distortion. Turn CW to increase sensitivity, resulting in more saturation at the cost of dynamic range and a little noise. May not be audible at high TOXICITY settings.

## SAFETY

We attempt to build safe products.

Here are some further cautions you should exercise while using them.

1. Do not eat or attempt to cook the Pit Viper.
2. The Pit Viper module follows the Eurorack standard power connection scheme, includes a standard 16-to-10 pin power connector, has reverse polarity protection diodes and a shielded 10 pin header to ensure the power is connected only one way – the right way. Nonetheless, please make sure that your power supply puts out power in the correct manner (red stripe negative!)
3. When making any changes to trim pot settings, use a small screwdriver and do not exercise force on the body of the trimmer! A small adjustment can go a long way, so be gentle!
4. While developed and tested at a more standard +/- 12V DC, the Pit Viper Eurorack module can be safely operated up to +/- 15VDC. Exceeding this voltage may lead to damage of the circuit or ICs.
5. Do not bathe with the Pit Viper.
6. Your cat may take offence to the sounds made by Pit Viper. This is normal. If you don't have a cat, please adopt a cat (unless, of course, you are allergic 🐱).

## TECHNICAL DETAILS

**Width:** 12 HP (60.96 mm)

**Power Consumption:** approx 35 mA +12V, 25 mA -12V

**Depth with power cable:** approx 46mm

**Audio Input:** mono 1/8" with input overload protection

**Input Impedance:** nom >500kΩ

**Audio Output:** mono 1/8" with input overload protection

**Output Impedance:** nom. approx 1kΩ

### **CV (0-10 VDC) Inputs:**

**Bite** – Attenuator

**Saturation** – Attenuverter input for bipolar CV

**Filter** – Attenuverter input for bipolar CV

One 25cm 16-to-10 pin power cable included.

## **TIPS AND TRICKS**

1. The opamp (TLC2262) at the back of the circuit is socketed. Swap it out with other opamps to see how the distortion character changes. We do not take responsibility for damages to circuit or opamp from any modifications, so please be careful!
2. This is NOT a precision device, the idea being to add dirt and character. If you however still feel the need to change our home-rolled vactrols on the filter board for fancy/matched ones, we've included extra solder holes in place for exactly that.
3. Use the BLEND knob and the VENOM knobs together to set the wet/dry volume balance that works best for you.
4. Keep in mind that the Pit Viper is essentially voiced for the midrange and has a low cut at the input.
5. If you choose to adjust the trimpots, do keep in mind that the filter gain and sensitivity should be adjusted together to determine the best results.

## **COSMETIC CARE**

The Pit Viper surface is aluminium hand polished to a distressed brushed finish. Due to the nature of the process, some flaws in the finish are unavoidable despite our best efforts. Clean the surface with a microfibre cloth when necessary. It should stay untarnished for very, very long.

## **WARRANTY**

All Animal Factory Amplification products, unless otherwise specified, are protected by a 2-year warranty on manufacturing and workmanship. This does not cover cosmetic damage by routine use.

## **CONTACT US**

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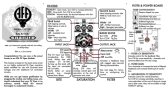


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## **Documents / Resources**



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